Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A biocompatible gel-forming drug-delivering composition for *in vivo* administration, comprising:

a drug;

a first component comprising at least one sulfhydryl group-containing compound in a liquid medium having an alkaline pH, wherein said sulfhydryl group-containing compound is given by the formula $\frac{\text{Compound}_1-\text{Core}_1-(\text{SH})_m}{\text{Core}_1-(\text{SH})_m}$, wherein $m \ge 2$; and

a second component comprising at least one sulfhydryl reactive group-containing compound in either a liquid medium having a neutral or acidic pH or in powder form, wherein said sulfhydryl reactive group-containing compound is given by the formula $\frac{\text{Compound}_2 - \text{Core}_2}{\text{Core}_2}$. Wherein Y is a sulfhydryl reactive group and wherein $n \ge 2$;

wherein the biocompatible gel-forming drug-delivering composition further comprises a secondary carrier, the secondary carrier incorporating the drug; and wherein at least one of the first or second components is a polyalkylene oxide and wherein the sulfhydryl groups and the sulfhydryl reactive groups react with one another to form covalent bonds therebetween when said components are mixed together to form a gel in less than one minute.

- 2. (Original) The composition of claim 1, wherein m and n are each 4.
- 3. (Original) The composition of claim 1, wherein m and n are each 12.
- 4. (Original) The composition of claim 1, wherein the first component is a polyalkylene oxide.

- 5. (Original) The composition of claim 1, wherein the second component is a polyalkylene oxide.
- 6. (Original) The composition of claim 1, wherein the first and second components are polyalkylene oxides.
- 7. (Withdrawn) The composition of claim 6, wherein the polyalkylene oxides are polyethylene glycol.
- 8. (Withdrawn) The composition of claim 1, wherein only one of the first or second components is a polyalkylene oxide.
- 9. (Withdrawn) The composition of claim 8, wherein one of the components is a polyalkylene oxide and the other component is a functionally activated succinimidyl or maleimidyl compound which is not a polymer.
- 10. (Original) The composition of claim 1, wherein the covalent bonds are thioester linkages.
- 11. (Withdrawn) The composition of claim 1, wherein the covalent bonds are thioether linkages.
- 12. (Withdrawn) The composition of claim 1, wherein the covalent bonds are sulfhydryl linkages.
 - 13. (Original) The composition of claim 1, wherein the drug is hydrophobic.
- 14. (Original) The composition of claim 1, wherein the drug is an angiogenesis inhibitor.

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- 15. (Withdrawn) The composition of claim 1, wherein the drug is a 5-Lipoxygenase inhibitor or antagonist.
- 16. (Withdrawn) The composition of claim 1, wherein the drug is a chemokine receptor antagonist.
- 17. (Original) The composition of claim 1, wherein the drug is a cell cycle inhibitor or an analogue or derivative thereof.
- 18. (Original) The composition of claim 17, wherein the cell cycle inhibitor is a microtubule stabilizing agent.
- 19. (Original) The composition of claim 18, wherein the microtubule stabilizing agent is paclitaxel, docetaxel, or Peloruside A.
- 20. (Original) The composition of claim 17, wherein the cell cycle inhibitor is a taxane.
- 21. (Original) The composition of claim 18, wherein the taxane is paclitaxel or an analogue or derivative thereof.
- 22. (Withdrawn) The composition of claim 17, wherein the cell cycle inhibitor is an antimetabolite, an alkylating agent, or a vinca alkaloid.
- 23. (Withdrawn) The composition of claim 22, wherein the vinca alkaloid is vinblastine, vincristine, vincristine sulfate, vindesine, vinorelbine, or an analogue or derivative thereof.

- 24. (Withdrawn) The composition of claim 17, wherein the cell cycle inhibitor is camptothecin or an analogue or derivative thereof.
- 25. (Withdrawn) The composition of claim 17, wherein the cell cycle inhibitor is selected from the group consisting of mitoxantrone, etoposide, 5-fluorouracil, doxorubicin, methotrexate, Mitomycin-C, CDK-2 inhibitors, and analogues and derivatives thereof.
- 26. (Withdrawn) The composition of claim 1, wherein the drug is a cyclin dependent protein kinase inhibitor or an analogue or derivative thereof.
- 27. (Withdrawn) The composition of claim 1, wherein the drug is an EGF (epidermal growth factor) kinase inhibitor or an analogue or derivative thereof.
- 28. (Withdrawn) The composition of claim 1, wherein the drug is an elastase inhibitor or an analogue or derivative thereof.
- 29. (Withdrawn) The composition of claim 1, wherein the drug is a factor Xa inhibitor or an analogue or derivative thereof.
- 30. (Withdrawn) The composition of claim 1, wherein the drug is a farnesyltransferase inhibitor or an analogue or derivative thereof.
- 31. (Withdrawn) The composition of claim 1, wherein the drug is a fibrinogen antagonist or an analogue or derivative thereof.
- 32. (Withdrawn) The composition of claim 1, wherein the drug is a guanylate cyclase stimulant or an analogue or derivative thereof.

- 33. (Withdrawn) The composition of claim 1, wherein the drug is a heat shock protein 90 antagonist or an analogue or derivative thereof.
- 34. (Withdrawn) The composition of claim 1, wherein the drug is an HMGCoA reductase inhibitor or an analogue or derivative thereof.
- 35. (Withdrawn) The composition of claim 1, wherein the drug is a hydroorotate dehydrogenase inhibitor or an analogue or derivative thereof.
- 36. (Withdrawn) The composition of claim 1, wherein the drug is an IKK2 inhibitor or an analogue or derivative thereof.
- 37. (Withdrawn) The composition of claim 1, wherein the drug is an IL-1, ICE, or IRAK antagonist or an analogue or derivative thereof.
- 38. (Withdrawn) The composition of claim 1, wherein the drug is an IL-4 agonist or an analogue or derivative thereof.
- 39. (Withdrawn) The composition of claim 1, wherein the drug is an immunomodulatory is rapamycin, tacrolimus, everolimus, biolimus, or an analogue or derivative thereof.
- 40. (Withdrawn) The composition of claim 1, wherein the drug is an inosine monophosphate dehydrogenase inhibitor or an analogue or derivative thereof.
- 41. (Withdrawn) The composition of claim 1, wherein the drug is a leukotreine inhibitor or an analogue or derivative thereof.

- 42. (Withdrawn) The composition of claim 1, wherein the drug is a MCP-1 antagonist or an analogue or derivative thereof.
- 43. (Withdrawn) The composition of claim 1, wherein the drug is a MMP inhibitor or an analogue or derivative thereof.
- 44. (Withdrawn) The composition of claim 1, wherein the drug is a NF kappa B inhibitor or an analogue or derivative thereof.
- 45. (Withdrawn) The composition of claim 1, wherein the drug is a NO antagonist or an analogue or derivative thereof.
- 46. (Withdrawn) The composition of claim 1, wherein the drug is a P38 MAP kinase inhibitor or an analogue or derivative thereof.
- 47. (Withdrawn) The composition of claim 1, wherein the drug is a phosphodiesterase inhibitor or an analogue or derivative thereof.
- 48. (Withdrawn) The composition of claim 1, wherein the drug is a TGF beta Inhibitor or an analogue or derivative thereof.
- 49. (Withdrawn) The composition of claim 1, wherein the drug is a thromboxane A2 antagonist or an analogue or derivative thereof.
- 50. (Withdrawn) The composition of claim 1, wherein the drug is a TNFa Antagonist, a TACE, or an analogue or derivative thereof.
- 51. (Withdrawn) The composition of claim 1, wherein the drug is a tyrosine kinase inhibitor or an analogue or derivative thereof.

- 52. (Withdrawn) The composition of claim 1, wherein the drug is a vitronectin inhibitor or an analogue or derivative thereof.
- 53. (Withdrawn) The composition of claim 1, wherein the drug is a fibroblast growth factor inhibitor or an analogue or derivative thereof.
- 54. (Withdrawn) The composition of claim 1, wherein the drug is a protein kinase inhibitor or an analogue or derivative thereof.
- 55. (Withdrawn) The composition of claim 1, wherein the drug is a PDGF receptor kinase inhibitor or an analogue or derivative thereof.
- 56. (Withdrawn) The composition of claim 1, wherein the drug is an endothelial growth factor receptor kinase inhibitor or an analogue or derivative thereof.
- 57. (Withdrawn) The composition of claim 1, wherein the drug is a retinoic acid receptor antagonist or an analogue or derivative thereof.
- 58. (Withdrawn) The composition of claim 1, wherein the drug is a platelet derived growth factor receptor kinase inhibitor or an analogue or derivative thereof.
- 59. (Withdrawn) The composition of claim 1, wherein the drug is a fibrinogin antagonist or an analogue or derivative thereof.
- 60. (Withdrawn) The composition of claim 1, wherein the drug is an antimycotic agent or an analogue or derivative thereof.
- 61. (Withdrawn) The composition of claim 1, wherein the drug is a bisphosphonate or an analogue or derivative thereof.

- 62. (Withdrawn) The composition of claim 1, wherein the drug is a phospholipase A1 inhibitor or an analogue or derivative thereof.
- 63. (Withdrawn) The composition of claim 1, wherein the drug is a histamine H1/H2/H3 receptor antagonist or an analogue or derivative thereof.
- 64. (Withdrawn) The composition of claim 1, wherein the drug is a macrolide antibiotic or an analogue or derivative thereof.
- 65. (Withdrawn) The composition of claim 1, wherein the drug is an GPIIb IIIa receptor antagonist or an analogue or derivative thereof.
- 66. (Withdrawn) The composition of claim 1, wherein the drug is an endothelin receptor antagonist or an analogue or derivative thereof.
- 67. (Withdrawn) The composition of claim 1, wherein the drug is a peroxisome proliferators-activated receptor agonist or an analogue or derivative thereof.
- 68. (Withdrawn) The composition of claim 1, wherein the drug is an estrogen receptor agent or an analogue or derivative thereof.
- 69. (Withdrawn) The composition of claim 1, wherein the drug is somatostatin or an analogue or derivative thereof.
- 70. (Withdrawn) The composition of claim 1, wherein the drug is a JNK Kinase inhibitor or an analogue or derivative thereof.
- 71. (Withdrawn) The composition of claim 1, wherein the drug is a melanocortin or an analogue or derivative thereof.

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- 72. (Withdrawn) The composition of claim 1, wherein the drug is a raf kinase inhibitor or analogue or derivative thereof.
- 73. (Withdrawn) The composition of claim 1, wherein the drug is a lysylhydroxylase inhibitor or an analogue or derivative thereof.
- 74. (Withdrawn) The composition of claim 1, wherein the drug is an IKK 1/2 inhibitor or an analogue or derivative thereof.
- 75. (Original) The composition of claim 1, further comprising an anti-inflammatory agent, an antithrombotic agent, an antibiotic, or a combination thereof.
- 76. (Withdrawn) The composition of claim 1, wherein the drug further comprises a polymer.
- 77. (Withdrawn) The polymer of claim 76, wherein the polymer is a polymer or copolymer comprising one or more of the residue units of the monomers, lactic acid, glycolic acid, D-lactide, L-lactide, D,L-lactide, glycolide, □-caprolactone, trimethylene carbonate, 1,4-dioxane-2-one or 1,5-dioxepan-2one,
- 78. (Withdrawn) The polymer of claim 77, wherein the polymer is a block copolymers of the for A-B, A-B-A or B-A-B where A is a poly(alkylene oxide) and B is a degradable polyester.
- 79. (Withdrawn) The poly(alkylene oxide) in claim 78, wherein the poly(alkylene oxide) is poly(ethylene glycol), poly(propylene glycol), copolymers of ethylene oxide and propylene oxide or mono alkyl ethers thereof

- 80. (Withdrawn) The composition of claim 76, wherein the polymer is in the form of a microsphere.
- 81. (Withdrawn) The composition of claim 76, wherein the polymer is in the form of a nanosphere.
- 82. (Withdrawn) The composition of claim 76, wherein the polymer is in the form of a micelle.
- 83. (Withdrawn) The composition of claim 1, wherein the drug further comprises a non-polymeric carrier.
- 84. (Currently Amended) The composition of claim 1, wherein the drug is a hydrophobic drug in admixture with a—the secondary carrier to provide drug/carrier, the drug/carrier being in admixture with the first component to provide drug/carrier/first component, the drug/carrier/first component being suspended in an aqueous buffer solution.
 - 85. (Original) The composition of claim 1, wherein the drug is hydrophilic.
- 86. (Currently Amended) The composition of claim 1, wherein the drug is a hydrophilic drug in admixture with a—the secondary carrier to provide drug/carrier, the drug/carrier being in admixture with the first component to provide drug/carrier/first component, the drug/carrier/first component being suspended in an aqueous buffer solution.
- 87. (Original) The composition of claim 1, wherein the first component is suspended in a buffer solution comprising a mixture of phosphate buffer and carbonate buffer.
- 88. (Original) The composition of claim 2, wherein the second component comprises a mixture of succinimidyl polyalkylene oxide and maleimidyl polyalkylene oxide.

89. (Currently Amended) A method for treating tissues, comprising the steps of:

administering to a tissue site a first component comprising at least one sulfhydryl group-containing compound in liquid medium having an alkaline pH, wherein said sulfhydryl group-containing compound is given by the formula $\frac{\text{Compound}_1-\text{Core}_1}{\text{Core}_1-(SH)_m}$, wherein m ≥ 2 ; and

simultaneously or subsequently administering to the tissue site a second component comprising at least one sulfhydryl reactive group-containing compound either a liquid medium having a neutral or acidic pH or in powder form, wherein said sulfhydryl reactive group-containing compound is given by the formula $\frac{\text{Compound}_2 - \text{Core}_2}{\text{Core}_2 - \text{Y}_n}$, wherein Y is a sulfhydryl reactive group and wherein $n \ge 2$, and wherein at least one of the first or second components is a polyalkylene oxide; and

simultaneously or subsequently administering to the tissue site a drug, the drug being in admixture with a secondary carrier; and

allowing the sulfhydryl groups and the sulfhydryl reactive groups to react with one another to form covalent bonds therebetween to form a gel in less than one minute.

90. (Currently Amended) A biocompatible gel-forming drug-delivering composition for *in vivo* administration with a gel time of less than one minute, comprising:

polyalkylene oxide-(SH)₄ and <u>a drug</u> in a liquid medium having a pH of between 8 and 10.5, the drug being incorporated in a secondary carrier; and

polyalkylene oxide-Y₄, wherein Y is succinimidyl, in a liquid medium having an acidic pH.

91. (Currently Amended) A biocompatible gel-forming drug-delivering composition for *in vivo* administration with a gel time of less than one minute, comprising:

polyalkylene oxide-(SH)₁₂ and <u>a</u> drug in a liquid medium having an alkaline pH, the drug being incorporated in a secondary carrier; and

polyalkylene oxide-Y₁₂ in a liquid medium having an acidic pH, wherein Y is a succinimidyl or maleimidyl group.

92. (Currently Amended) A biocompatible gel-forming composition for *in vivo* administration, comprising:

a sulfhydryl group-containing polyalkylene oxide in a liquid medium having an acidic pH, wherein said sulfhydryl group-containing polyalkylene oxide is given by the formula $Core-(SH)_m$, wherein $m \ge 2$;

a buffer solution with an alkaline pH; and

<u>a</u> drug in admixure with the polyalkylene oxide and/or the buffer solution, wherein the drug is incorporated in a secondary carrier;

wherein the sulfhydryl groups react with one another to form covalent bonds therebetween when said components are mixed together to form a gel in less than one minute.

93. (Currently Amended) A biocompatible gel-forming drug-delivering composition for *in vivo* administration, comprising:

at least one sulfhydryl group-containing compound in a liquid medium having an alkaline pH, wherein said sulfhydryl group-containing compound is given by the formula $\frac{\text{Compound}_1-\text{Core}_1-(\text{SH})_m}{\text{Core}_1-(\text{SH})_m}$, wherein $m \ge 2$;

at least one sulfhydryl reactive group-containing compound either a liquid medium having a neutral or acidic pH or in powder form, wherein said sulfhydryl reactive group-containing compound is given by the formula $\frac{\text{Compound}_2-\text{Core}_2}{\text{Core}_2}-Y_n$, wherein Y is a sulfhydryl reactive group and wherein $n \ge 2$;

at least one drug in admixture with either or both of the at least one sulfhydryl group-containing compound and the at least one sulfhydryl reactive group-containing compound, the drug being incorporated in a secondary carrier; and

collagen;

wherein at least one of either the sulfhydryl group-containing compound or the sulfhydryl reactive group-containing compound is a polyalkylene oxide, and wherein the sulfhydryl groups and the sulfhydryl reactive groups are capable of reacting with one another to form covalent bonds therebetween.

- 94. (Original) The composition of claim 93, wherein m and n are each 4.
- 95. (Original) The composition of claim 93, wherein m and n are each 12.
- 96. (Original) The composition of claim 93 wherein the sulfhydryl group-containing compound is a polyalkylene oxide.
- 97. (Original) The composition of claim 93, wherein the sulfhydryl reactive group-containing compound is a polyalkylene oxide.
- 98. (Original) The composition of claim 93, wherein both the sulfhydryl group-containing compound and the sulfhydryl reactive group-containing compound are polyalkylene oxides.
- 99. (Original) The composition of claim 98, wherein both the sulfhydryl group-containing compound and the sulfhydryl reactive group-containing compound are polyalkylene oxides.
- 100. (Withdrawn) The composition of claim 93, wherein only one of the first or second components is a polyalkylene oxide.
- 101. (Withdrawn) The composition of claim 100, wherein one of the components is a polyalkylene oxide and the other component is a functionally activated succinimidal or maleimidal compound which is not a polymer.

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- 102. (Original) The composition of claim 93, wherein the covalent bonds are thioester linkages.
- 103. (Withdrawn) The composition of claim 93, wherein the covalent bonds are thioether linkages.
- 104. (Withdrawn) The composition of claim 93, wherein the covalent bonds are sulfhydryl linkages.
- 105. (Original) The composition of claim 93, wherein the drug is a hydrophobic drug.
- 106. (Original) The composition of claim 93, wherein the drug is a hydrophobic drug in admixture with a secondary carrier to provide drug/carrier, the drug/carrier being in admixture with either or both of the at least one sulfhydryl group-containing compound and the at least one sulfhydryl reactive group-containing compound.
- 107. (Original) The composition of claim 93, wherein the sulfhydryl group-containing compound is suspended in a buffer solution comprising a mixture of phosphate buffer and carbonate buffer.
- 108. (Original) The composition of claim 93, wherein the sulfhydryl reactive group-containing compound comprises a mixture of succinimidyl polyalkylene oxide and maleimidyl polyalkylene oxide.
- 109. (Original) The composition of claim 93, wherein the collagen is methylated collagen.

- 110. (Currently Amended) A biocompatible gel-forming drug-delivering composition for *in vivo* administration, comprising:
 - (a) a first component in a liquid medium having an acidic pH comprising:
- (i) at least one sulfhydryl group-containing compound given by the formula $\frac{\text{Compound}_1-\text{Core}_1}{\text{Core}_1-(SH)_m}$, wherein $m \ge 2$;
- (ii) at least one sulfhydryl reactive group-containing compound given by the formula $\frac{\text{Compound}_2}{\text{Core}_2}$ - $\frac{\text{Core}_2}{\text{N}}$, wherein Y is a sulfhydryl reactive group and wherein $n \ge 2$; and
 - (iii) collagen; and
- (b) a second component comprising a buffer having a pH of between 8 and 10.5;

wherein a drug is present in admixture with either or both of the first component or the second component, the drug being further incorporated in a secondary carrier; and

wherein at least one of either the sulfhydryl group containing compound or the sulfhydryl reactive group containing compound is a polyalkylene oxide.

- 111. (Original) The composition of claim 110 wherein the collagen is methylated collagen.
- 112. (Original) The composition of claim 110 wherein the second component is a buffer solution comprising a mixture of phosphate buffer and carbonate buffer.

113-126. (Canceled)